

CLAIMS

1. Use of a material comprising a reflecting layer (2,5) of pearls of transparent glass or plastic at least partially embedded in an adhering transparent substance, said layer being arranged at one side thereof adjacent to a first transparent plastic layer (1) comprising polyvinyl chloride or polyester, for manufacturing, by means of thermoforming, a retro-reflecting shell which, after cooling, has a curved or irregular surface shaped as a helmet with the capability of reflecting light in all directions.

2. Use as in claim 1, characterized in that the thermoforming is vacuum forming.

3. Use as in claim 1 or 2, characterized in that the material is a plane sheet or a foil.

4. Use as in claim 1 or 2, characterized in that a second transparent plastic layer (3) comprising polyvinyl chloride or polyester is arranged on the other side of the layer of pearls, opposite to said first transparent plastic layer (1).

5. Use as in claim 1 or 2, characterized in that the adhering substance comprises a first and a second layer (4a, 4b) surrounding the layer (5) of pearls, the first layer (4a) being arranged adjacent to said first transparent plastic layer (1).

6. Use as in claim 5, characterized in that the pearls in the layer (5) form a monolayer.

7. Use as in any of claims 1-6, characterized in that the pearls have a diameter between 0.01 and 0.05 mm.

8. Use as in claim 4, characterized in that when the second plastic layer (3) comprises polyvinyl chloride it is high-frequency welded to the reflecting layer (2).

claim 1

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Use as in any of claims 1-8, characterized in that the adhering transparent substance is a lacquer.

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10. Use as in claim 9, characterized in that the lacquer is a screen printing lacquer.

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11. Use as in any of ~~claims 1-5~~, characterized in that a layer (6) of a transparent dye is arranged adjacent to said first transparent plastic layer (1).

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12. Use as in claim 5, characterized in that a high gloss material layer (7) is arranged adjacent to said second layer (4b) of the adhering substance opposite to the reflecting layer (5) of pearls.

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13. Use as in claim 12, ~~characterized~~
in that the high gloss material layer (7) comprises
aluminium particles.

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